

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-1A

Client:	West Virginia DEP/OER	Date:	March 27, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Rick Moore	Water Level Information	
Method:	Auger Rig	Immediate:	40.5'
		At Completion:	40.5'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
0'-2'	15" - Light brown, sand clay, no odor, medium stiff, moist. 9" - No recovery.	1	0'-2'	15"	2-5-5-7 0730	8.0
2'-5'	No recovery.					
5'-7'	2" - Light brown, sandy clay, no odor, medium stiff, moist. 10" - Light brown, silty sand, with fine grain gravel, no odor, loose, moist. 12" - No recovery.	2	5'-7'	12"	2-3-2-3 0740	9.2
7'-10'	No recovery.					
*10'-12'	12" - Light brown, silty sand with coarse grain gravel, no odor, loose, very moist. 12" - No recovery.	3	10'-12'	12"	2-2-3-3 0755	10.1
12"-15'	No recovery.					
15'-17'	20" - Light brown, silty sand, no odor, loose, very moist. 4" - No recovery.	4	15'-17'	20"	3-4-6-5 0805	9.4
17'-20'	No recovery.					
20'-22'	1" - Dark charcoal-like layer, no odor, loose. 17" - Light brown, silty sand with coarse grain gravel, no odor, loose, very moist. 6" - No recovery.	5	20'-22'	18"	1-5-6-4	9.1
22'-25'	No recovery.					
*25'-27'	12" - Light brown, silty sand, fine grain gravel, no odor, loose, very moist. 12" - No recovery.	6	25'-27'	12"	1-1-4-6 0825	13.8
27'-30'	No recovery. *Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-1A (Continued)

Client:	West Virginia DEP/OER	Date:	March 27, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Rick Moore	Water Level Information	
Method:	Auger Rig	Immediate:	40.5'
		At Completion:	40.5'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
30'-32'	12" - Light brown, silty sand with fine grain gravel, no odor, loose, very moist. 12" - No recovery.	7	30'-32'	12"	1-1-1-1 0835	8.9
32'-35'	No recovery.					
35'-37'	12" - Light brown, silty sand with fine grain gravel, no odor, loose, very moist. 12" - No recovery.	8	35'-37'	12"	0845	11.0
37'-40'	No recovery.					
40'-42'	12" - Light brown, silty sand with fine and coarse grain gravel, no odor, loose, saturated. Water table 40.5' T.D. 48' (well set at 47') Sand 47'-35' Bentonite 35'-33'	9	40'-42'	12"	2-2-9-10 0900	10.8
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-1B

Client:	West Virginia DEP/OER	Date:	March 27, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Rick Moore	Water Level Information	
Method:	Auger Rig	Immediate:	40'
		At Completion:	40'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-2'	20" - Light brown, sandy clay, no odor, medium stiff, moist. 4" - No recovery.	1	0'-2'	20"	3-4-5-4 1230	No PID
2'-5'	No recovery.					
5'-7'	10" - Light brown, silty sand with fine and coarse grain gravel, no odor, loose, moist. 14" - No recovery.	2	5'-7'	10"	2-2-3-2 1240	8.0
7'-10'	No recovery.					
10'-12'	12" - Light brown, silty sand, dark charcoal like patch at 10'-10.3', no odor, loose, moist. 12" - No recovery.	3	10'-12'	12"	2-1-2-2 1300	11.0
12'-15'	No recovery.					
15'-17'	15" - Light brown, silty sand with dark charcoal-like patched 15'-15.5', no odor, loose, moist. 9" - No recovery.	4	15'-17'	15"	2-2-3-3 1300	9.2
17'-20'	No recovery.					
20'-22'	15" - Light brown, silty sand, with coarse grain gravel, no odor, loose, very moist at 21'. 9" - No recovery.	6	20'-22'	15"	3-8-9-8 1310	9.3
22'-25'	No recovery.					
25'-27'	18" - Light brown, silty sand with fine and coarse grain gravel, no odor, loose, very moist. 6" - No recovery.	7	25'-27'	18"	1-5-4-3 1315	15.5
27'-30'	No recovery.					
30'-32'	12" - Light brown, silty sand with coarse grain gravel, no odor, loose, very moist. 12" - No recovery. *Soil samples submitted from noted depth interval.	8	30'-32'	12"	2-2-7-7 1325	6.8

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-1B (Continued)

Client:	West Virginia DEP/OER	Date:	March 27, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Rick Moore	Water Level Information	
Method:	Auger Rig	Immediate:	40'
		At Completion:	40'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*35'-37'	15" - Light brown, silty sand with coarse grain gravel, no odor, loose, very moist.	9	35'-37'	15"	1-1-5-9 1335	9.7
37'-40'	9" - No recovery. No recovery. Due to heaving sand up in Auger, no more samples taken. Water table 40' Bedrock at 85'					
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-2A

Client:	West Virginia DEP/OER	Date:	March 31, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Rick Moore	Water Level Information	
Method:	Auger Rig	Immediate:	41'
		At Completion:	41'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
0-2'	10" - Brown, sandy clay with coarse grain gravel and concrete at 10" down, no odor, moist, medium stiff. 14" - No recovery.	1	0-2'	10"	54-7-7 1445	4.4
2'-5'	No recovery.					
5'-7'	12" - Light brown, sandy clay, no odor, medium stiff, moist. 12" - No recovery.	2	5'-7'	12"	3-3-4-4 1500	3.7
7'-10'	No recovery.					
*10'-12'	10" - Light brown, silty sand, no odor, moist, loose. 14" - No recovery.	3	10'-12'	10"	1-2-2-3 1510	15.3
12'-15'	No recovery.					
15'-17'	8" - Light brown, silty clay with coarse grain gravel, no odor, very moist, loose. 16" - No recovery.	4	15'-17'	8"	1-1-3-4 1520	11.9
17'-20'	No recovery.					
20'-22'	15" - Light brown, silty sand with coarse grain gravel, no odor, very moist, loose. 9" - No recovery.	5	20'-22'	15"	5-5-5-7 1530	10.3
22'-25'	No recovery.					
25'-27'	15" - Light brown, silty sand with dark charcoal layer at ~26' (1" long), no odor, loose, very moist. 9" - No recovery.	6	25'-27'	15"	1-2-4-6 1540	25.7
27'-30'	No recovery.					
30'-32'	10" - Light brown, silty sand with coarse grain gravel, no odor, loose, very moist. 14" - No recovery. *Soil samples submitted from noted depth interval.	7	30'-32'	10"	1-1-2-5 1550	6.3

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-2A (Continued)

Client:	West Virginia DEP/OER	Date:	March 31, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Rick Moore	Water Level Information	
Method:	Auger Rig	Immediate:	41'
		At Completion:	41'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
32'-35'	No recovery.					
35'-37'	12" - Light brown, silty sand with coarse grain gravel, no odor, loose, very moist. 12" - No odor.	8	35'-37'	12"	2-7-6-6 1600	6.6
37'-40'	No recovery.					
*40'-42'	12" - Light brown, silty sand with coarse grain gravel, no odor, medium dense, wet at 41'. 12" -No recovery. Well set at 47' sand pack 47-34.5 Bentonite 34.5- 32.5 Slurry Portland 2" - Bottom cap 10' - Screen 40' - Riser	9	40'-42'	12"	2-10-8-6 1615	3.0
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-2B

Client:	West Virginia DEP/OER	Date:	April 1, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Rick Moore	Water Level Information	
Method:	Auger Rig	Immediate:	32'
		At Completion:	41'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-2'	12" - Light brown, sandy clay with coarse grain gravel, no odor, soft moist. 12" - No recovery.	1	0-2'	12"	3-3-4-6 1700	2.3
2'-5'	No recovery.					
5'-7'	18" - Light brown, sandy clay, no odor, soft, very moist. 6" - No recovery.	2	5'-7'	18"	2-4-5-4 1710	2.7
7'-10'	No recovery.					
10'-12'	2" - Light brown, sandy clay, no odor, soft, moist. 10" - Light brown, silty sand with coarse and fine grain gravel with dark chemical patch at 11', no odor, loose, moist. 12" - No recovery.	3	10'-12'	12"	2-3-3-3 1715	9.0
12'-15'	No recovery.					
15'-17'	10" - Light brown, silty sand with coarse and fine grain gravel, no odor, loose, moist. 14" - No recovery.	4	15'-17'	10"	2-2-2-2 1725	9.2
17'-20'	No recovery.					
20'-22'	12" - Light brown, silty sand, no odor, loose, very moist.	5	20'-22'	12"	2-3-5-5 1735	7.4
22'-25'	No recovery.					
*25'-27'	15" - Light brown, silty sand, no odor, loose, moist. 9" - No recovery.	6	25'-27'	15"	2-2-2-3 1745	9.4
27'-30'	No recovery.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-2B (Continued)

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>April 1, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Rick Moore</u>	Water Level Information	
Method:	<u>Auger Rig</u>	Immediate:	<u>32'</u>
		At Completion:	<u>41'</u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
30'-32'	8" - Light brown, silty sand with coarse grain gravel, no odor, medium dense, wet but not saturated. 16" - No recovery.	7	30'-32'	8"	2-6-2-5 1750	6.6
32'-35'	No recovery.					
35'-37'	12" - Light brown, silty sand with coarse and fine grain gravel, no odor, medium dense, wet. 12" - No recovery.	8	35'-37'	12"	3-4-8-9 1805	6.5
37'-40'	No recovery.					
40'-42'	15" - Light brown, silty sand with coarse grain gravel, no odor, medium dense, saturated at 41'. 9" - No recovery. No more samples taken due to sand heaving. T.D. 85.5'	9	40'-42'	15"	0730	7.0
*Soil samples submitted from noted depth interval..						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP - 3A

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>March 28, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Rick Moore</u>	Water Level Information	
Method:	<u>Auger Rig</u>	Immediate:	<u>39'</u>
		At Completion:	<u>39'</u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
0-2'	18" - Black, cinder like material, coarse grain gravel, medium stiff, dry. 6" - No recovery.	1	0-2'	18"	0805 4-8-12-8	7.1
2'-5'	No recovery.					
5'-7'	12" - Dark brown, sandy clay with coarse grain gravel, medium stiff, slight sewage odor at 6', moist. 12" - No recovery.	2	5'-7'	12"	0815 2-4-8-6	7.5
7'-10'	No recovery.					
*10'-12'	20' - Light brown, sandy clay, no odor, medium stiff, moist. 4' - No recovery.	3	10'-12'	20"	0825 2-3-4-5	7.3
12'-15'	No recovery.					
15'-17'	8" - Light brown, silty sand with coarse and fine grain gravel, no odor, very moist, loose. 16" - No recovery.	4	15'-17'	8"	0835	5.4
17'-20'	No recovery.					
20'-22'	2" - Light brown silty sand with coarse grain gravel, no odor, very moist, loose. 22" - No recovery.	5	20'-22'	2"	1-4-2-2 0850	No PID
22'-25'	No recovery.					
25'-27'	15" - Light brown, silty sand with coarse grain gravel at 26', no odor, moist, loose, very moist.	6	25'-27'	15"	1-1-47 0900	5.5
27'-30'	No recovery.					
30'-32'	8' - Light brown, silty sand, no odor, loose, very moist. NOTE: Coarse grain rock at bottom of split spoon. 16" - No recovery. *Soil samples submitted from noted depth interval.	7	30'-32'	8"	0910	6.0

BORING NUMBER: MWDEP - 3A (Continued)

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
32'-35'	No recovery.					
*35 -37'	<p>12" - Light brown, silty sand with coarse and fine grain gravel, no odor, loose, very moist.</p> <p>No more samples taken to due sand heaving in water table.</p> <p>Water table 39' from PZ-6</p> <p>Set well at 47'</p> <p>Sandpack 47-35</p> <p>Bentonite 35-31.4</p> <p>Slurry mix 31.4 - 2</p> <p>Portland 2 - 0</p>	8	35' - 37'	12"	4-5-6-5 0925	8.5
<p>*Soil Samples submitted from noted depth interval.</p>						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-3B

Client:	West Virginia DEP/OER	Date:	March 31, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Rick Moore	Water Level Information	
Method:	Auger Rig	Immediate:	39'
		At Completion:	39'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
0-2'	20" - Black, cinder like material, no odor, medium stiff, moist. 4" - No recovery.	1	0-2'	20"	6-9-9-7 0850	1.6
2'-5'	No recovery.					
5'-7'	3" - Black, cinder like material, no odor, medium stiff, moist. 9" - Light brown, sandy clay, no odor, medium stiff, moist. 12' - No recovery.	2	5'-7'	12"	2-5-10-8 0900	2.4
7'-10'	No recovery.					
10'-12'	4" - Light brown, sandy clay with coarse grain gravel, no odor, moist. 20" - No recovery.	3	10'-12'	4"	3-7-7-9 0915	2.7
12'-15'	No recovery.					
15'-17'	6" - Light brown, silty sand with coarse grain and fine grain gravel, no odor, loose, moist. 18" - No recovery.	4	15'-17'	6"	1-4-3-4 0930	4.1
17'-20'	No recovery.					
20'-22'	6" - Light brown, silty sand with coarse grain gravel, no odor, loose, moist. 18" - No recovery.	5	20'-22'	6"	1-4-3-1 0940	2.7
22'-25'	No recovery.					
*25'-27'	24" - Light brown, silty sand, no odor, loose, moist.	6	25'-27'	24"	0950	4.3
27'-30'	No recovery.					
30'-32'	10" - Light brown, silty sand with coarse grain gravel, no odor, loose, very moist.	7	30'-32'	10"	1-1-7-9 1000	3.9
32'-35'	No recovery. *Soil samples submitted from noted depth interval.					

BORING NUMBER: MWDEP-3B (Continued)

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
35'-37'	10" - Light brown, silty sand with coarse grain gravel, no odor, loose, very moist. 14" - No recovery.	8	35'-37'	10"	2-2-5-5 1010	4.0
37'-40'	No recovery.					
*40'-42'	8" - Light brown, silty sand with high concentration of fine grain gravel and some coarse grain gravel, no odor, loose, saturated. T.D. 85.6	9	40'-42'	8"	1-1-1-1 1020	5.6
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-4A

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>March 25, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Rick Moore</u>	Water Level Information	
Method:	<u>Auger Rig</u>	Immediate:	<u>35'</u>
		At Completion:	<u>35'</u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
0-2'	15" - Light brown, sandy clay, no odor, medium stiff, moist. (Note: Liner core at 1.5" down) 9" - No recovery.	1	0-2'	15"	2-2-5-6 0750	6.1
2'-5'	No recovery.					
5'-7'	10" - Dark grey, sandy clay, slight sewage odor, soft, moist. 19" - No recovery.	2	5'-7'	10"	2-3-2-2 0805	
7'-10'	No recovery.					
*10'-12'	10" - Dark grey, sandy clay with liner core at 6" down, slight creosote smell, moist, soft then hard at 8" down. 14" - No recovery. (NOTE: Sandstone in bottom of split spoon).	3	10'-12'	10"	1-3-11-9 0815	
12'-15'	No recovery.					
15'-17'	15" - Light brown, silty sand with coarse grain sandstone core at 12" down, no odor, medium dense, moist. 9" - No recovery.	4	15'-17'	15"	2-3-4-6 0825	5.1
17'-20'	No recovery.					
20'-22'	12" - Light brown, silty sand, no odor, loose, moist 12" - No recovery.	5	20'-22'	12"	2-2-7-6 835	5.0
22'-25'	No recovery.					
25'-27'	18" - Light brown, silty sand, no odor, loose, very moist. 6" - No recovery.	6	25'-27'	18"	3-6-6-6 0845	6.9
27'-30'	No recovery.					
	*Soil samples submitted from noted depth interval.					

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-4A (Continued)

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>March 25, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Rick Moore</u>	Water Level Information	
Method:	<u>Auger Rig</u>	Immediate:	<u>35'</u>
		At Completion:	<u>35'</u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
30'-32'	15" - Light brown, silty sand, no odor, loose, very moist. 9" - No recovery.	7	30'-32'	15"	2-3-4-3 0900	7.0
32'-35'	No recovery.					
*35'-37'	15" - Light brown, silty sand, no odor, loose, saturated. 9" - No recovery.	8	35'-37'	15"	2-3-6-6 0915	9.5
	Set well at 42'.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MW-4B

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>March 24, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Rick Moore</u>	Water Level Information	
Method:	<u>Auger Rig</u>	Immediate:	<u>35'</u>
		At Completion:	<u>35'</u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-2'	18" - Light brown, sandy clay, no odor, medium stiff, moist. Note: Dark charcoal-like patch (2") at 1'. 6" - No recovery.	1	0'-2'	18"	3567 1115	3.3
2'-4'	No recovery.					
5'-7'	12" - Light brown, sandy clay-mottled with dark specs (small areas), distinct odor, moist, soft. At bottom of split spoon there was a white liner core (Paper-like but stronger). 12" - No recovery.	2	5'-7'	12"	2-1-1-9 1130	4.9
7'-10'	No recovery.					
*10'-12'	6" - Light brown, sandy clay, no odor, moist, medium stiff. 4" - Dark, sandy clay (Black), distinct odor creosote odor, moist, medium stiff 12" - No recovery.	3	10'-12'	10"	1140	No PID
12'-15'	No recovery.					
15'-17'	10" - Light brown, silty sand with fine and coarse gravel, creosote odor, very moist, very loose. 14" - No recovery.	4	15'-17'	10"	2-1-4-5 1200	No PID
17'-20'	No recovery.					
20'-22'	1" - Dark black, clay-like material, with white liner core, distinct odor, moist, soft. 17" - Light brown, silty sand, slight odor, moist, loose. 6" - No recovery.	5	20'-22'	18"	4-5-6-7 1210	4.3
22'-25'	No recovery.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MW-4B (Continued)

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>March 24, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Rick Moore</u>	Water Level Information	
Method:	<u>Auger Rig</u>	Immediate:	<u>35'</u>
		At Completion:	<u>35'</u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
25'-27'	15" - Light brown, silty sand, no odor, moist, loose. 9" - No recovery.	6	25'-27'	15"	3-3-4-4 1310	No PID
27'-30'	No recovery.					
30'-32'	8" - Light brown, silty sand with fine and coarse grain gravel, no odor, very moist, loose. 16" - No recovery.	7	30'-32'	8"	3-2-3-4 1336	No PID
32'-35'	No recovery.					
35'-37'	12" - Light brown, silty sand with fine and coarse grain gravel, no odor, saturated, loose. 12" - No recovery.	8	35'-37'	12"	5-4-5-4 1350	2.3
37'-40'	No recovery.					
40'-42'	8" - Light brown, silty sand with coarse grain gravel, no odor, saturated, loose.	9	40'-42'	8"	1-4-10-10 1415	2.5
42'-45'	No recovery.					
45'-47'	6" - Light brown, silty sand with fine grain gravel, no odor, loose, wet. 18" - No recovery.	10	45' - 47'	6"	2-4-8-8 1435	No PID
47'-50'	No recovery.					
50'-52'	15" - Light brown, silty sand with fine grain gravel, no odor, medium dense, wet. 9" - No recovery.	11	50'-52'	15"	5-7-9-9 1450	3.1
52'-55'	No recovery.					
55'-57'	No recovery. -Sand Heaving. -No more samples taken. Bedrock at 78.75 BGS. Set 10' screen. *Soil samples submitted from noted depth intervals.	12	55'-57'		1515	

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-5A

Client:	West Virginia DEP/OER	Date:	April 2, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Rick Moore	Water Level Information	
Method:	Auger Rig	Immediate:	25'
		At Completion:	25'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
0-2'	6" - Light brown, sandy clay, no odor, dry, medium stiff. 6" - Cinder like material, no odor, moist, medium dense. 12" - No recovery.	1	0-2'	12"	3-3-9-9 1310	5.0
2'-5'	No recovery.					
5'-7'	12" - Light brown, sandy clay, no odor, medium stiff, moist. 12" - No odor.	2	5'-7'	12"	2-3-4-7 1325	7.9
7'-10'	No recovery.					
10'-12'	22" - Light brown, sandy clay, no odor, soft, moist. 2" - No recovery.	3	10'-12'	22"	3-3-3-5 1345	
12'-15'	No recovery.					9.2
*15'-17'	24" - Light brown, sandy clay, slight fish odor, barley soft, wet at 16.5'.	4	15'-17'	24"	2-4-4-4 1350	13.6
17'-20'	No recovery.					
20'-22'	24" - Light brown, sandy clay, slight fish odor, barely soft, wet but more so at 21'.	5	20'-22'	24"	2-3-3-3 1400	13.8
22'-25'	No recovery.					
*25'-27'	24" - Light brown, sandy clay, more pronounced fish odor, soft, saturated. This is below water table. Set well at 29'	6	25'-27'	24"	2-3-22 1410	21.0
	*Soil samples submitted from noted depth intervals.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-5B

Client:	West Virginia DEP/OER	Date:	April 3, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Rick Moore	Water Level Information	
Method:	Auger Rig	Immediate:	21'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
0-2'	10" - Light brown, sandy clay with cinder patch 8"-10" down, no odor, medium stiff, dry. 14" - No recovery.	1	0-2'	10"	3-3-5-7 0755	5.0
2'-5'	No recovery.					
5'-7'	12" - Light brown, sandy clay, no odor, medium stiff, dry. 12' - No recovery.	2	5'-7'	12"	3-3-5-5 0810	7.8
7'-10'	No recovery.					
*10'-12'	20" - Light brown, sandy clay, no odor, medium stiff, moist. 6" - No recovery.	3	10'-12'	20"	1-2-3-5 0820	8.4
12'-15'	No recovery.					
15'-17'	24" - Light brown, sandy clay, slight fish odor, medium stiff to soft at 16', moist to wet at 16' down.	4	15'-17'	24"	0830	7.5
17'-20'	No recovery.					
*20'-22'	18" - Light brown, sandy clay, slight odor, soft, wet at 21'. 6" - No recovery.	5	20'-22'	18"	1-3-2-2 0840	9.7
22'-25'	No recovery.					
25'-27'	24" - Light brown, sandy clay, slight fish odor, wet, saturated. below water table. T.D. 66'	6	25'-27'	24"	2-2-3-2 0850	15.4
*Soil samples submitted from noted depth intervals.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-6A

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>March 25, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Rick Moore</u>	Water Level Information	
Method:	<u>Auger Rig</u>	Immediate:	<u>16'</u>
		At Completion:	<u> </u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-2'	2" - Light brown, sandy clay, no odor, soft, moist. 20" - White/light grey, chalk-like, material, odd odor, soft, moist. 2" - Light brown, sandy clay, slight odor, medium stiff, moist.	1	0'-2'	24"	1-1-1-6 1410	22.8
2'-5'	No recovery.					
5'-7'	20" - Light brown, sandy, clay, slight odor, medium stiff, slightly moist. 4" - No recovery.	2	5'-7'	20"	6-8-7-8 1420	21.8
7'-10'	No recovery.					
10'-12'	18" - Light brown, sandy clay, slight odor, soft, very moist. 6" - No recovery.	3	10'-12'	18"	1-3-3-3 1435	22.0
12'-15'	No recovery.					
15'-17'	18" - Light brown, sandy clay, slight odor, soft, wet at 16'. 6" - No recovery.	4	15'-17'	18"	1-1-1-2 1445	22.6
17'-20'	No recovery.					
*20'-22'	18" - Light brown, sandy clay, slight odor, soft. 6" - No recovery.	5	20'-22'	18"	1-1-1-1 1500	26.5
	*Soil samples submitted from noted depth intervals.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: MWDEP-6B

Client:	West Virginia DEP/OER	Date:	March 26, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Rick Moore	Water Level Information	
Method:	Auger Rig	Immediate:	16'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
0-2'	17" - Light brown, sandy clay, no odor, medium stiff, moist. 1" - White/light grey, chalk-like material, slight odor, soft, moist. 6" - No recovery.	1	0-2'	18"	3-3-4-6 0810	13.5
2'-5'	No recovery.					
5'-7'	20" - Light brown, sandy clay, slight odor, medium stiff, moist. 4" - No recovery.	2	5'-7'	20"	3-5-6-6 0825	35.4
7'-10'	No recovery.					
10'-12'	22" - Light brown, sandy clay, slight odor, medium stiff, very moist at 11.5'.	3	10'-12'	22"	4-5-7-6 0835	16.1
12'-15'	No recovery.					
*15'-17'	24" - Light brown, sandy clay, slight odor, soft wet at 16'.	4	15'-17'	24"	1-1-1-2 0850	24.3
17'-20'	No recovery.					
20'-22'	24" - Light brown, sandy clay, slight odor, soft, saturated.	5	20'-22'	24"	1-1-4-2 0900	24.3
22'-25'	No recovery.					
*25'-27'	22" - Light brown, sandy, clay, slight odor, soft, saturated. 2" - No recovery.	6	25'-27'	22"	1-1-1-1 0910	7.4
27'-30'	No recovery.					
30'-32'	Sand upheaval prevents split spoon sampling. No more samples taken. TD=62' - Rockbed encountered *Soil samples submitted from noted depth interval.	7	30'-32'	0"		

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-1

Client:	West Virginia DEP/OER	Date:	March 04, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	17'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-4'	15" - Light brown, sandy clay with coarse grain, no odor, medium stiff, moist. 21" - Light brown, silty sand with coarse grain gravel, no odor, soft, moist. 12" - No recovery.	1	0-4'	36"	1330	4.2
4'-6'	12" - Light brown, sandy clay with occasional coarse grain gravel, no odor, medium stiff, moist. 12" - Light brown, silty sand, fine grain gravel, no odor, soft, moist. Note: Charcoal patch at approximately 5.5'-5.8'. 4" - No recovery.	2	4'-6'	24"	1340	2.5
6'-8'	No recovery.					
8'-10'	20" - Light brown, silty sand, occasional coarse grain gravel, no odor, soft, moist. Dark charcoal patch at 9.5' (4" long).	3	8'-10'	20"	1345	3.5
10'-12'	No recovery.					
*12'-14'	24" - Light brown, silty sand with occasional fine grain gravel (pea gravel size), dark charcoal-like patches throughout (2"-3"), no odor, moist, soft.	4	12'-14'	24"	1400	2.9
14'-16'	No recovery.					
16'-18'	24" - Light brown, silty sand, fine grain gravel from 17.5'-18', no odor, soft, moist than wet at 17'.	5	16'-18'	24"	1420	2.5
18'-20'	No recovery.					
20'-22'	20" - Light brown, silty sand, no odor, wet, soft.	6	20'-22'	24"	1440	2.2
22'-24'	No recovery.					
	*Samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-1 (Continued)

Client:	West Virginia DEP/OER	Date:	March 04, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	17'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
24'-26'	24" - Light brown, silty sand, no odor, wet, soft, black charcoal-like patch at 25' (4"-6" long).	7	24'-26'	24"	1500	3.8
26'-28'	No recovery.					
28'-30'	24" - Light brown, silty sand, no odor, more moist than wet, soft.	8	28'-30'	24"	1520	2.5
30'-32'	No recovery.					
32'-34'	24" - Light brown, silty sand, wet, no odor, soft, black charcoal-like zone at 33.5'-34'.	9	32'-34'	24"	1535	2.5
34'-36'	No recovery.					
36'-38'	24" - Light brown, silty sand with coarse grain gravel, wet but not water table, no odor, soft.	10	36'-38'	20"	1600	4.1
	4" - No recovery.					
38'-40'	No recovery.					
40'-42'	3" - Light brown, sandy clay with coarse grain gravel, wet, no odor, medium stiff.	11	40'-42'	18"	1620	2.1
	15" - Light brown, silty sand, fine and coarse grain gravel, no odor, wet, soft.					
	6" - No recovery.					
42'-44'	No recovery.					
44'-46'	24" - Light brown, silty sand, no odor, soft, wet, coarse grain gravel, below water table.	12	44'-46'	24"	1640	3.1
46'-48'	No recovery.					
	*Soil samples submitted from noted depth interval.					

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-2

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>March 4, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>13'</u>
		At Completion:	<u> </u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-4'	36" - Light brown, sandy clay with coarse grain gravel, no odor, medium stiff, moist.	1	0-4'	36"	0850	3.7
4'-6'	6" - Light brown, sandy clay with coarse grain gravel, no odor, medium stiff, moist.	2	4'-6'	18"	0900	2.5
6'-8'	No recovery.					
8'-10'	24" - Light brown, silty sand with charcoal-like patch at approximately 9' (1" long), no odor, soft, very moist at 9'.	3	8'-10'	24"	0910	2.8
10'-12'	No recovery.					
12'-14'	24" - Light brown, silty sand, charcoal-like patch 13'-14', no odor, wet, soft.	4	12'-14'	24"	1920	2.3
14'-16'	No recovery.					
16'-18'	18" - Light brown, silty sand, no odor, soft, wet.	5	16' -18'	18"	0930	2.1
	6" - No recovery.					
18'-20'	No recovery.					
*20'-22'	24" - Light brown, silty sand, no odor, soft, wet, black charcoal patches throughout.	6	20'-22'	24"	0940	4.0
22'-24'	No recovery.					
24'-26'	24" - Light brown, silty sand, no odor, occasional coarse grain gravel, soft, wet, charcoal patch at 24.5' (3" long).	7	24'-26'	24"	1000	2.1
26'-28'	No recovery.					
28'-30'	24" - Light brown, silty sand, no odor, wet, soft with coarse grain gravel, charcoal-like patch at 29.5'-30.0'.	8	28'-30'	24"	1020	2.4
30'-32'	No recovery.					
	*Soil samples submitted from noted depth interval.					

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-2 (Continued)

Client:	West Virginia DEP/OER	Date:	March 4, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	13'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
32'-34'	24" - Light brown, silty sand, charcoal-like patch at 32.5'-33.5', no odor, wet, soft. Note: coarse and fine grain gravel throughout.	9	32'-34'	24"	1035	2.0
34'-36'	No recovery.					
36'-38'	20" - Light brown, silty sand, coarse and fine grain sand, no odor, soft, wet. 4" - No recovery.	10	36'-38'	24"	1100	1.8
38'-40'	No recovery.					
40'-42'	20" - Light brown, silty sand, coarse and fine grain gravel, no odor, soft, wet.	11	40'-42'	20"	1125	1.6
42'-44'	No recovery.					
44'-48'	30" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, wet.	12	44'-48'	30"	1200	2.3
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-3

Client:	West Virginia DEP/OER	Date:	March 03, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	20'
		At Completion:	24'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	2" - Gravel from road bed, no odor, hard, dry. 28" - Light brown, sandy clay, no odor, moist, medium stiff with occasional coarse grain gravel. 18" - No recovery.	1	0-4'	30"	1120	2.0
4'-6'	8" - Light brown, sandy clay, no odor, medium stiff, moist. 16" - No recovery.	2	4'-6'	8"	1130	1.2
6'-8'	No recovery.					
8'-10'	5" - Light brown, sandy clay with coarse grain gravel, no odor, soft, moist. 3" - Light brown, silty sand with coarse and fine grain gravel, no odor, wet, soft. 16" - No recovery.	3	8'-10'	8"	1140	2.0
10'-12'	No recovery.					
12'-14'	15" - Light brown, silty sand, no odor, soft, very moist. 9" - No recovery.	4	12'-14'	15"	1150	2.7
14'-16'	No recovery.					
16'-18'	24" - Light brown, silty sand with some fine grain gravel, no odor, soft, very, moist, charcoal-like patch at 16'-17'.	5	16'-18'	24"	1205	3.2
18'-20'	No recovery.					
20'-22'	24" - Light brown, silty sand, no odor, soft, wet or approaching wet, dark charcoal-like patch at 20'-20.5'.	6	20'-22'	24"	1240	2.3
22'-24'	No recovery.					
24'-26'	24" - Light brown, silty sand, no odor, soft, wet, water in tube. *Soil samples submitted from noted depth interval.	7	24'-26'	24"	1300	2.5

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-3 (Continued)

Client:	West Virginia DEP/OER	Date:	March 3, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	20'
		At Completion:	24'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
26'-28'	No recovery.					
28'-32'	30" - Light brown, silty sand with dark charcoal-like patches at 29' and 30'. Patches range 3" - 6" each, no odor, soft, wet. 18" - No recovery.	8	28'-32'	30"	1320	2.5
32'-36'	36" - Light brown, silty sand with dark charcoal-like patch from 34'-35', no odor, soft, wet. 12" - No recovery.	9	32'-36'	36"	1345	2.7
36'-38'	24" - Light brown, silty sand with dark charcoal-like patch at 37'-38', no odor, wet, soft.	10	36'-38'	24"	1405	2.1
38'-40'	No recovery.					
40'-42'	24" - Light brown, silty sand with coarse grain gravel, no odor, soft, wet.	11	40'-42'	24"	1425	1.7
42'-44'	No recovery.					
*44'-48'	30" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, wet. 18" - No recovery. Set PZ-5 at 48'. Check at 1540. Gave 31' bgs. *Soil samples submitted from noted depth interval.	12	44'-48'	30"	1450	3.0

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-4

Client:	West Virginia DEP/OER	Date:	March 6, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	21'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-2'	24" - Light brown, sandy clay with coarse grain gravel, no odor, medium stiff, moist.	1	0'-2'	24"	1330	4.8
2'-4'	No recovery.					
4'-8'	No recovery				1340	
8'-12'	No recovery, used small rods to push rock out of way.				1350	
12'-14'	8' - Light brown, silty sand, no odor, moist, soft.	2	12'-14'	8"	1415	4.6
	16" - No recovery.					
14'-16'	No recovery.					
16'-18'	15" - Light brown, silty sand with fine grain gravel, no odor, very moist, soft.	3	16'-18'	15"	1430	4.5
18'-20'	No recovery.					
20'-22'	20' - Light brown, silty sand with fine and coarse grain gravel, no odor, wet, soft, wet at 21'.	4	20'-22'	20"	1440	4.7
22'-24'	No recovery.					
24'-28'	30" - Light brown, silty sand, no odor, wet, soft.	5	24'-28'	30"	1455	4.8
	18" - No recovery.					
	Note: Black charcoal-like patch at 25'-25.5'.					
28'-32'	30" - Light brown, silty sand, no odor, wet, soft.	6	28'-32'	30"	1515	4.9
	18" - No recovery					
32'-34'	24" - Light brown, silty sand, no odor, wet, soft.	7	32'-34'	24"	1535	4.5
	Note: Black charcoal patches 2"-6" throughout.					
	*Soil samples submitted from noted depth interval.					

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-4 (Continued)

Client:	West Virginia DEP/OER	Date:	March 6, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	21'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
34'-36'	No recovery.					
36'-40'	36" - Light brown, silty sand, no odor, soft, wet.	8	36'-40'	36"	1600	5.5
*40'-42'	24" - Light brown, silty sand with coarse grain gravel, no odor, soft, wet.	9	40'-42'	24"	1620	6.5
42'-44'	No recovery.					
44'-48'	36" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, moist.	10	44'-48'	36"	1640	5.7
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-5

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>February 10, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>13'</u>
		At Completion:	<u> </u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-2'	12" - Loam topsoil, no odor, soft, moist.	1	0'-2'	24"	1310	4.2
2'-4'	No recovery.					
4'-8'	No recovery.				1315	
8'-10'	6" - Light brown, sandy clay with coarse grain gravel, no odor, soft, moist.	2	8'-10'	6"	1320	Not enough sample taken
	18" - No recovery.					
10'-12'	No recovery.					
12'-14'	12" - Light brown, sandy clay with coarse grain gravel, no odor, soft, moist.	3	12'-14'	24"	1340	4.1
	12" - Light brown, sand with coarse grain gravel, no odor, soft, wet.					
14'-16'	No recovery.					
16'-18'	24" - Light brown sand, no odor, wet, soft.	4	16'-18'	24"	1400	4.6
18'-20'	No recovery.					
20'-22'	24" - Light brown sand with coarse grain gravel, no odor, wet, soft.	5	20'-22'	24"	1420	5.2
22'-24'	No recovery.					
24'-26'	18" - Light brown sand, coarse grain gravel, no odor, wet, soft.	6	24'-26'	18"	1430	
26'-28'	No recovery.					
28'-30'	24" - Light brown sand with coarse grain gravel and dark charcoal-like patches (longest 1.5' long) throughout, no odor, soft, wet.	7	28'-30'	24"	1450	Not enough sample taken
30'-32'	No recovery.					
32'-36'	48" - Light brown sand, coarse grain gravel, pockets of charcoal-like material, no odor, wet, soft.	8	32'-36'	48"	1500	5.1
	*Soil samples submitted from noted depth interval.					

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-5 (Continued)

Client:	West Virginia DEP/OER	Date:	February 10, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	13'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*36'-40'	48" - Light brown sand, coarse grain gravel, dark pockets, no odor, wet, soft.	9	36'-40'	48"	1520	5.4
40'-44'	48" - Light brown sand, coarse grain gravel, no odor, wet, soft.	10	40'-44'	48"	1540	5.0
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-6

Client:	West Virginia DEP/OER	Date:	February 10, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	17'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-4'	24" - Light brown, Sandy clay, no odor, moist, soft with coarse grain gravel. 24" - No recovery.	1	0'-4'	24"	1050	4.3
4'-8'	12" - Light brown, sandy clay with coarse grain gravel, no odor, moist, soft. 36" - No recovery.	2	4'-8'	12"	1050	3.9
8'-10'	24" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, moist.	3	8'-10'	24"	1105	2.1
10'-12'	No recovery.					
12'-14'	24" - Light brown, sandy clay with coarse grain gravel, moist, soft, no odor.	4	12'-14'	24"	1115	3.9
14'-16'	No recovery.					
*16'-18'	18" - Light brown, sandy clay with coarse gravel, moist, soft, wet, no odor. 6" - Light brown, sandy clay.	5	16'-18'	24"	1120	5.1
18'-20'	No recovery.					
20'-22'	24" - Light brown, sandy clay, no odor, soft to medium stiff, wet.	6	20'-22'	24"	1130	5.0
22'-24'	No recovery.					
	Watertable at approximately 17'.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-7

Client:	West Virginia DEP/OER	Date:	February 12, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	12.5'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-2'	10" - Light brown, sandy clay, no odor, moist, soft.	1	0-2'	30"	0830	2.6
	20" - Light brown, sandy clay with coarse and fine grain gravel, no odor, moist, soft.					
2'-4'	No recovery.					
4'-6'	24" - Light brown, sandy clay with coarse and fine grain gravel, no odor, moist, soft.	2	4'-6'	24"	0840	3.5
6'-8'	No recovery.					
8'-10'	20" - Light brown, silty sand with coarse and fine grain gravel, no odor, moist to wet, soft.	3	8'-10'	20"	0850	5.2
10'-12'	No recovery.					
*12'-14'	18" - Light brown, silty sand with coarse and fine grain sand, no odor, wet at 12.5', soft.	4	12'-14'	18"	0910	NA
14'-16'	No recovery.					
16'-20'	36" - Light brown, silty sand, coarse and fine grain gravel, no odor, wet, soft. Note: Definitely below water table.	5	16'-20'	36"	0925	3.2
20'-24'	30" - Light brown, silty sand with coarse and fine grain sand, no odor, wet, soft.	6	20'-24'	30"	0945	3.2
24'-26'	36" - Light brown, silty sand with coarse and fine grain sand, no odor, wet, soft.	7	24'-26'	26"	1010	2.9
26'-28'	No recovery.					
28'-32'	30" - Light brown, silty sand with coarse and fine grain gravel, no odor, wet, soft.	8	28'-32'	30"	1025	Not taken
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-8

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>February 27, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrum, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>17'</u>
		At Completion:	<u> </u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-2'	24" - Light brown, sandy clay with coarse and fine grain gravel, unknown odor, moist, soft.	1	0'-2'	24"	1500	3.3
2'-4'	No recovery.					
4'-6'	4" - Light brown, Sandy clay with coarse and fine grain gravel, unknown odor, moist, soft. 4" - Light brown, silty sand with fine and coarse grain gravel, odor, moist, soft. 16" - No recovery.	2	4'-6'	8"	1510	N/A
6'-8'	No recovery.					
8'-10'	6" - Light brown silty sand with coarse grain gravel, odor - not petroleum, moist, soft.	3	8'-10'	6"	1515	3.2
10'-12'	No recovery.					
12'-14'	18" - Light brown, silty sand, odor, very moist, soft. 6" - No recovery.	4	12'-14'	18"	1525	4.8
14'-16'	No recovery.					
16'-18'	18" - Light brown, silty sand, dark charcoal-like patch 2" thick at 17', slight odor, soft, wet. 6" - No recovery.	5	16'-18'	18"	1535	10.3
18'-20'	No recovery.					
20'-22'	24" - Light brown, silty sand, no odor noticed, soft, wet.	6	20'-22'	24"	1550	6.2
22'-24'	No recovery.					
24'-26'	24" - Light brown, silty sand, no odor noticed, soft, wet, dark charcoal-like patch 3' long at 25.5'.	7	24'-26'	24"	1610	19.1
26'-28'	No recovery.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-8 (Continued)

Client:	West Virginia DEP/OER	Date:	February 28, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	17'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
28'-30'	24" - Light brown, silty sand, no odor, occasional coarse grain gravel, soft, wet.	8	28'-30'	24"	0830	0.5
30'-32'	No recovery.					
32'-34'	18" - Light brown, silty sand with fine and coarse grain gravel, no odor, soft, wet.	9	32'-34'	18"	0845	0.8
34'-36'	No recovery.					
36'-38'	18" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, wet.	10	36'-38'	18"	0905	0.4
38'-40'	No recovery.					
40'-42'	24" - Light brown, silty sand with fine and coarse grain gravel, no odor, soft, wet.	11	40'-42'	24"	0935	0.8
42'-44'	No recovery.					
*44'-48'	36" - Light brown, silty sand with coarse and fine grain gravel, no odor, wet, soft, water in tube.	12	44'-48'	36"	1000	1.0
*Soil samples submitted from noted depth interval.						

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-9

Client:	West Virginia DEP/OER	Date:	February 28, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	14'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	30" - Light brown, sandy clay, no odor, soft, moist. 18" - No recovery.	1	0-4'	30"	1045	1.0
4'-6'	6" - Light brown, sandy clay, no odor, soft, moist. 12" - Light brown, silty sand, no odor, soft, moist. 6" - No recovery.	2	4'-6'	18"	1050	1.0
6'-8'	No recovery.					
8'-10'	24" - Light brown, silty sand, no odor, soft, moist, dark patch at 9'.	3	8'-10'	24"	1100	0.7
10'-12'	No recovery.					
12'-14'	18" - Light brown, silty sand, no odor, soft, wet.	4	12'-14'	18"	1110	0.3 (Limited sample)
14'-16'	No recovery.					
16'-18'	24" - Light brown, silty sand, no odor, soft, wet.	5	16'-18'	24"	1125	2.0
18'-20'	No recovery.					
20'-22'	18" - Light brown, silty sand, no odor, soft, wet.	6	20'-22'	18"	1135	1.9
22'-24'	No recovery.					
24'-26'	18" - Light brown, silty sand, dark blotch (charcoal-like) at 25.5', faint odd odor, soft, wet.	7	24'-26'	18"	1200	1.9
26'-28'	No recovery.					
*28'-30'	12" - Light brown, silty sand, dark blotches (charcoal-like throughout), faint odor, saturated @ approximately 29', soft. 12" - No recovery. *Soil samples submitted from noted depth interval.	8	28'-30'	24"	1320	1.8

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-9 (Continued)

Client:	West Virginia DEP/OER		Date:	February 28, 2003
Project:	PPG Industries, Inc.		Project No.:	02-0119-003
Location:	Natrium, West Virginia		Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information		
Method:	GeoProbe	Immediate:	14'	At Completion:

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
32'-34'	24" - Light brown, silty sand, coarse grain gravel, no odor.	9	32'-34'	24"	1320	1.8
34'-36'	No recovery.					
36'-38'	24" - Light brown, silty sand with fine grain gravel, slight odor.	10	36'-38'	24"	1400	2.6
38'-40'	No recovery.					
40'-42'	24" - Light brown silty sand, with fine grain gravel, no odor.	11	40'-42'	24"	1400	2.6
42'-44'	No recovery.					
44'-46'	20" - Light brown, silty sand with coarse and fine grain gravel, no odor.	12	44'-46'	20"	1420	0.8
46'-48'	No recovery.					
*Soil samples submitted from noted depth interval.						

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-10

Client:	West Virginia DEP/OER	Date:	February 27, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	16'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-4'	36" - Light brown, sandy clay, no odor, moist, medium stiff.	1	0-4'	36"	1050	2.3
4'-6'	15" - Light brown, sandy clay, no odor, medium stiff, moist.	2	4'-6'	15"	1130	3.2
6'-8'	No recovery.					
8'-10'	6" - Light brown, sandy clay, coarse fine gravel, moist, no odor.	3	8'-10'	6"	1140	3.0
10'-12'	No recovery.					
*12'-14'	6" - Light brown, sandy clay with fine coarse grain gravel, soft, moist.	4	12'-14'	6"	1150	3.4
14'-16'	No recovery.					
16'-18'	2" - Light brown, silty sand, no odor, wet, soft.	5	16'-18'	2"	1205	4.2
18'-20'	No recovery.					
20'-22'	1" - Light brown, silty sand, no odor, wet, soft.	6	20'-22'	1"	1215	
22'-28'	No recovery.					
28'-30'	2" - Light brown, silty sand, no odor, wet, soft.	7	28'-30'	2"	1320	5.0
30'-32'	No recovery.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-11

Client:	West Virginia DEP/OER	Date:	February 26, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	20'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	30" - Light brown, sandy clay, no odor, moist, medium stiff.	1	0-4"	30"	1510	4.3
4'-6'	18" - Light brown, sandy clay with sandstone, no odor, moist, medium stiff.	2	4'-6'	18"	1520	
6'-8'	No recovery.					
8'-10'	6" - Light brown, silty sand with coarse grain gravel, no odor, soft, moist.	3	8'-10'	6"	1530	3.1
10'-12'	No recovery.					
12'-14'	24" - Light brown, silty sand, fine, coarse grain gravel, no odor, wet.	4	12'-14'	24"	1535	7.6
14'-16'	No recovery.					
16'-18'	24" - Light brown, silty sand, fine and coarse grain gravel, no odor, soft, very moist.	5	16'-18'	24"	1545	6.8
18'-20'	No recovery.					
20'-24'	30" - Light brown, silty sand, no odor, soft, wet.	6	20'-24'	30"	1600	7.4
	18" - No recovery.					
24'-26'	24" - Light brown, silty sand, no odor, soft, wet.	7	24'-26'	24"	1615	6.6
26'-28'	No recovery.					
28'-30'	24" - Light brown, silty sand, no odor, sandstone core approximately 1" at 29', wet, soft.	8	28'-30'	24"	0820	3.8
30'-32'	No recovery.					
32'-36'	24" - Light brown, silty sand, no odor, wet, soft.	9	32'-36'	30"	0840	5.1
	3" - Charcoal-like layer, no odor, wet, soft.					
	3" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, wet.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-11 (Continued)

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>February 27, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>20'</u>
		At Completion:	<u> </u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*36'-40'	36" - Light brown, silty sand with fine coarse grain gravel, odd odor, soft, wet. Water has smell. 12" - No recovery.	10	36'-40'	36"	0900	4.0
40'-42'	24" - Light brown, silty sand with fine and coarse grain gravel, odd odor, soft, wet.	11	40'-42'	24"	0930	2.9
42'-44'	No recovery.					
44'-48'	36" - Light brown, silty sand with coarse and fine grain gravel, odd odor, wet, soft. 12" - No recovery.	12	44'-48'	36"	1000	3.7
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-12

Client:	West Virginia DEP/OER	Date:	February 14, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	12'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	36" - Light brown, sandy clay, moist, no odor, medium stiff.	1	0-4'	36"	0825	3.9
4'-6'	20" - Light brown, sandy clay, moist, no odor, medium stiff.	2	4'-6'	24"	0835	2.3
	4" - Light brown, sand with coarse and fine grain gravel, wet, no odor.					
6'-8'	No recovery.					
8'-10'	22" - Light brown, silty sand with coarse and fine grain gravel, wet, no odor.	3	8'-10'	22"	0845	1.6
10'-12'	No recovery.					
12'-14'	24" - Light brown, silty sand, coarse and fine grain gravel, saturated, no odor.	4	12'-14'	24"	6900	2.2
14'-16'	No recovery.					
16'-18'	20" - Light brown, silty sand, with fine grain gravel, no odor, soft, saturated.	5	16'-18'	20"	0920	0.8
18'-20'	No recovery.					
20'-22'	24" - Light brown, silty sand with fine and coarse grain gravel, no odor, soft, saturated.	6	20'-22'	24"	0935	1.2
22'-24'	No recovery.					
24'-28'	30" - Light brown, silty sand, with coarse and fine grain sand, no odor, soft, saturated.	7	24'-28'	30"	1015	1.1
28'-30'	24" - Light brown, silty sand, with coarse and fine grain gravel, no odor, soft saturated.	8	28'-30'	24"	1035	1.4
30'-32'	No recovery.					
32'-36'	36" - Light brown, silty clay with coarse and fine grain gravel, wet, no odor, soft.	9	32'-36'	36"	1050	
	12" - No recovery.					
	*Soil samples submitted from noted depth interval.					

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-12 (Continued)

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>February 14, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>12'</u>
		At Completion:	<u> </u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
36'-38'	24" - Light brown ,silty clay with coarse and fine grain gravel, no odor, wet, soft.	10	36'-38'	24"	1115	1.0
38'-40'	No recovery.					
40'-42'	24" - Light brown, silty sand, coarse and fine grain gravel, no odor, wet, soft. Black patch at 41'.	11	40'-42'	24"	1140	0.7
42'-44'	No recovery.					
*44'-46'	24" - Light brown, silty sand, coarse and fine grain gravel, odd odor, soft, saturated (wet).	12	44'-46'	24"	1200	0.2
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-13

Client:	West Virginia DEP/OER	Date:	February 11, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	7'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-2'	2" - Light brown loam, topsoil, no odor, moist, soft.	1	0'-2'	24"	0900	5.8
	22" - Light brown, sandy clay, no odor, moist, soft.					
2'-4'	No recovery.					
4'-8'	40" - Light brown, sandy clay, no odor, moist to wet at 6.5'-7', soft. Note: Coarse grain gravel at wet zone.	2	4'-8'	40"	0920	4.7
8'-10'	6" - Light brown, sandy clay with coarse grain gravel, no odor, wet, soft.	3	8'-10'	6"	0930	
10'-32'	No recovery		10'-32'			
32'-36'	2" - Light brown silty sand, fine and coarse grain gravel, wet, no odor, soft.	4	32'-36'	2"	1120	
*36'-40'	48" - Light brown, silty sand, with fine and coarse grain gravel, no odor, soft, wet.	5	36'-40'	48"	1200	3.5
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-14

Client:	West Virginia DEP/OER	Date:	February 11, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	6'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-4'	12" - Dark sandy loam with organic material, no odor, soft, moist. 36" - Light brown, sandy clay, no odor, moist, soft.	1	0-4'	48"	1345	6.3
4'-8'	36" - Light brown, sandy clay, no odor, moist to wet at 6', soft. 12" - No recovery.	2	4'-8'	36"	1400	5.3
8'-10'	12" - Light brown, sandy clay, no odor, very wet, soft, sandstone, at bottom of 9'. 12" - No recovery.	3	4'-8'	12"	1410	Not enough to sample
10'-12'	No recovery.					
12'-14'	6" - Light brown, sandy clay, no odor, soft, wet. 12" - Light brown, silty sand, no odor, soft, wet. 6" - No recovery.	4	12'-14'	18"	1420	4.1
14'-16'	No recovery.					
16'-18'	24" - Light brown, silty sand with fine and coarse grain gravel, no odor, wet, soft. Also several charcoal-like patches, 1"-2" at most.	5	16'-18'	24"	1430	5.1
18'-20'	No recovery.					
20'-22'	24" - Light brown, silty sand, fine coarse grain gravel, no odor, wet. Dark patches - charcoal-like throughout, largest 2" long.	6	20'-22'	24"	1450	3.8
22'-24'	No recovery.					
24'-26'	24" - Light brown silty sand with fine coarse grain gravel. Dark charcoal-like patch at 24.5' (3" long), no odor, wet, soft.	7	24'-26'	24"	1500	3.2
26'-28'	No recovery. *Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-14 (Continued)

Client:	West Virginia DEP/OER		Date:	February 11, 2003
Project:	PPG Industries, Inc.		Project No.:	02-0119-003
Location:	Natrium, West Virginia		Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information		
Method:	GeoProbe	Immediate:	6'	At Completion:

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
28'-32'	30" - Light brown, silty sand, coarse and fine grain gravel, no odor, wet, soft. 18" - No recovery.	8	28'-32'	30"	1530	4.0
32'-34'	24" - Light brown, silty sand, coarse and fine grain gravel, no odor, wet, soft.	9	32'-34'	24"	1550	4.9
34'-36'	No recovery.					
36'-40'	36" - Light brown, silty sand, coarse and fine grain gravel, no odor, saturated wet, soft.	10	36'-40'	36"	1620	6.0
*Soil samples submitted from noted depth interval.						

Potesta & Associates, Inc.

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Charleston, WV 25304

Phone: (304) 342-1400, Fax: (304) 343-9031

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-15

Client:	West Virginia DEP/OER	Date:	March 7, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	Unknown
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	6" - Blacktop with limestone base, no odor, medium stiff, dry. 24" - Light brown, sandy clay, no odor, moist, medium stiff. 18" - No recovery.	1	0-4'	30"	1130	2.9
4'-8'	30" - Light brown, sandy clay with coarse grain gravel, no odor, soft, very moist. 18" - No recovery.	2	4'-8'	30"	1140	3.8
8'-10'	1" - No sample - rock 23" - No recovery.		8'-10'	1"	1150	2.3
10'-16'	No recovery - rock					
16'-18'	24" - Light brown, silty sand with coarse grain gravel, black patch at 17' (3" long), no odor, very moist, approaching wet.		16'-18'	24"	1220	12.5
18'-20'	No recovery.					
20'-22'	24" - Light brown, silty sand, no odor, moist, soft.		20'-22'	24"	1300	4.1
22'-24'	No recovery.					
24'-26'	18" - Light brown, sand with charcoal-like patch at 24.5'-25', loose, moist, no odor.		24'-26'	18"	1320	19.1
26'-28'	No recovery.					
*28'-30'	24" - Light brown, silty sand with coarse grain gravel, no odor, loose, moist.		28'-30'	24"	1340	2.9
30'-32'	No recovery - refusal at 32'.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-16

Client:	West Virginia DEP/OER	Date:	March 7, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	Unknown
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	8" - Dark cinder-like, coal-fine like material, no odor, soft, moist. 22" - Light brown, sandy clay, no odor, moist, medium stiff. 18" - No recovery.	1	0-4'	30"	0830	3.0
4'-6'	18" - Light brown, sandy clay, no odor, medium stiff, moist. Coarse and fine grain gravel at 5'. 6" - No recovery.	2	4'-6'	18"	0845	2.5
6'-8'	No recovery.					
8'-10'	6" - Light brown, sandy clay with coarse grain gravel, no odor, medium stiff, moist. 18" - No recovery.	3	8'-10'	6"	0850	2.4
10'-12'	No recovery.					
12'-14'	24" - Light brown, silty sand with coarse grain gravel, no odor, moist, loose.	4	12'-14'	24"	0910	2.9
14'-16'	No recovery.					
16'-18'	24" - Light brown, silty sand with occasional coarse grain gravel, no odor, loose, moist.	5	16'-18'	24"	0920	4.8
18'-20'	No recovery.					
20'-22'	24" - Light brown, silty sand with occasional coarse grain gravel, no odor, loose, moist.	6	20'-22'	24"	0940	3.5
22'-24'	No recovery.					
24'-26'	24" - Light brown, silty sand, no odor, loose, very moist.	7	24'-26'	24"	1000	4.2
26'-28'	No recovery.					
*28'-30'	24" - Light brown, silty sand with dark charcoal-like patches throughout, no odor, loose, very moist. *Soil samples submitted from noted depth interval.	8	28'-30'	24"	1020	4.4

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-16 (Continued)

Client: West Virginia DEP/OER Date: March 7, 2003
Project: PPG Industries, Inc. Project No.: 02-0119-003
Location: Natrium, West Virginia Field Engr/Geo: M. Kauffer
Driller: Roy Fox Water Level Information
Method: GeoProbe Immediate: Unknown At Completion: _____

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
30'-32'	No recovery.					
32'-34'	15" - Light brown, silty sand with high coarse grain gravel content, no odor, loose, very moist. 9" - No recovery. Refusal at 33.5' on gravel.	9	32'-34'	15"	1040	5.6
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-17

Client:	West Virginia DEP/OER	Date:	March 14, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	17'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	4" - Light grey, sandy gravel, no odor, soft, dry. 32" - Light brown, sandy clay, very slight sewage odor, medium stiff, moist. 12" - No recovery.	1	0-4'	36"	0730	1.0
4'-8'	32" - Light brown, sandy clay, no odor, medium stiff, moist. 4" - Light brown sand, no odor, soft, moist. 12" - No recovery.	2	4'-8'	36"	0740	3.5
8'-10'	3" - Light brown, sandy clay with coarse grain sandstone at 3", no odor, hard, moist. 21" - No recovery.	3	8'-10'	3"	0750	5.6
10'-12'	No recovery.					
12'-14'	2" - Sandstone, hard, no odor, dry. 4" - Light brown, silty sand with coarse grain gravel, no odor, soft, moist. 18" - No recovery.	4	12'-14'	6"	0810	3.8
14'-16'	No recovery.					
16'-18'	20" - Light brown, silty sand with some coarse grain gravel, no odor, moist then wet at 16.5', soft. 4" - No recovery.	5	16'-18'	20"	0820	7.8
18'-20'	No recovery.					
20'-22'	24" - Light brown, silty sand with fine grain gravel, no odor, wet, soft. Dark charcoal-like patch at 21.5'-22'.	6	20'-22'	24"	0835	19.1
22'-24'	No recovery. *Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-17 (Continued)

Client:	West Virginia DEP/OER	Date:	March 14, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	17'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
24'-26'	24" - Light brown, silty sand with occasional fine and coarse grain gravel, no odor, wet, soft. Dark charcoal patch 3" from bottom.	7	24'-26'		0900	15.1
26'-28'	No recovery.					
*28'-30'	18" - Light brown, silty sand with coarse grain gravel, dark charcoal patches throughout, no odor, wet, soft.	8		18"	0920	8.2
	6" - No recovery.					
30'-32'	No recovery.					
	Refusal on rock.					
*Soil samples submitted from noted depth interval.						

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-18

Client:	West Virginia DEP/OER	Date:	March 13, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	6'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	6" - Cinder-like material, no odor, soft, moist. 6" - Limestone, no odor, hard dry. 24" - Light brown, sandy clay, no odor, medium stiff, no odor, medium stiff, moist. 12" - No recovery.	1	0-4'	36"	1550	0.7
4'-6'	24" - Light brown, sandy clay, no odor, soft, moist then wet at 5.5'.	2	4'-6'	24"	1600	1.8
6'-8'	No recovery.					
8'-10'	12" - Light brown, silty sand with coarse grain gravel, no odor, soft, wet. 12" - No recovery.	3	8'-10'	12"	1610	4.1
10'-12'	No recovery.					
12'-14'	24" - Light brown, silty sand with coarse and fine gravel, no odor, soft, wet.	4	12'-14'	24"	1620	2.0
14'-16'	No recovery.					
16'-18'	24" - Light brown, silty sand with fine grain gravel, no odor, soft, very moist.	5	16'-18'	24"	1630	6.2
18'-20'	No recovery.					
20'-22'	24" - Light brown, silty sand with fine grain gravel, no odor, soft, very moist.	6	20'-22'	24"	1650	4.2
22'-24'	No recovery.					
24'-28'	36" - Light brown, silty sand with occasional coarse grain gravel, no odor, soft, very moist. - Light brown, silty sand with 12" - No recovery.	7	24'-28'	36"	1700	5.5
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-18 (Continued)

Client:	West Virginia DEP/OER		Date:	March 13, 2003
Project:	PPG Industries, Inc.		Project No.:	02-0119-003
Location:	Natrium, West Virginia		Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information		
Method:	GeoProbe	Immediate:	6'	At Completion:

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-19

Client:	West Virginia DEP/OER	Date:	March 12, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	5'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-4'	6" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, moist. 30" - Light brown, sandy clay, no odor, medium stiff, moist. 12" - No recovery.	1	0'-4'	36"	0730	4.0
4'-6'	24" - Light brown, sandy clay with coarse grain gravel, no odor, soft, moist then wet at approximately 5'. 6'-8' No recovery.	2	4'-6'	25"	0750	3.6
8'-10'	12" - Light brown, silty sand with high concentration of coarse grain gravel, no odor, soft, wet. 12" - No recovery.	3	8'-10'	12"	0810	5.5
10'-12'	No recovery.					
12'-14'	2" - Light brown, silty sand with coarse grain gravel (looks like quartz), no odor, soft, wet. 22' - No recovery.	4	12'-14'	2"	0830	1.2
14'-16'	No recovery.					
16'-18'	24" - Light brown, silty sand with some coarse grain gravel, no odor, soft, wet to very moist.	5	16'-18'	24"	0845	18.2
18'-20'	No recovery.					
20'-24'	36" - Light brown, silty sand with occasional fine grain (pea size) gravel, no odor, wet, soft. 12" - No recovery.	6	20'-24'	36"	0900	15.4
24'-28'	30" - Light brown, silty sand, no odor, soft, wet. 18" - No recovery. *Soil samples submitted from noted depth interval.	7	24'-28'	30"	0920	17.1

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-19 (Continued)

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>March 12, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>5'</u>
		At Completion:	<u> </u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
28'-30'	24" - Light brown, silty sand, no odor, wet, soft with sandstone gravel at 30'.	8	28'-30'	24"	0940	15.5
30'-32'	No recovery.					
32'-34'	24" - Light brown, silty sand with coarse grain gravel (quartz and sandstone), no odor, soft, wet.	9	32'-34'	24"	1000	50.14
34'-36'	No recovery. Refusal at 35' on what looks like quartz.					
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-20

Client:	West Virginia DEP/OER	Date:	February 24, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	25'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	30" - Light brown, sandy clay with coarse grain gravel, no odor, wet due to snow melts, medium stiff. 18" - Dark brown, sandy clay, "staining", dry, slight odor, medium stiff.	1	0-4'	48"	1100	2.0
4'-8'	2" - Dark brown stained, sandy clay, slight odor, medium stiff, dry. 38" - Light brown, sandy clay, no odor, moist to very moist at 7.5'.	2	4'-8'	40"	1115	3.5
8'-10'	12" - Light brown, sandy clay, very moist to wet at 9', coarse grain gravel at 9', no odor, soft. 12" - Light brown sand, no odor, wet, soft.	3	8'-10'	24"	1125	3.1
10'-12'	No recovery.					
12'-14'	12" - Light brown sand, coarse and fine grain gravel, no odor, soft, wet. 12" - No recovery.	4	12'-14'	12"	1135	Not enough sample
14'-16'	No recovery.					
16'-18'	24" - Light brown sand, coarse and fine grain gravel, dark charcoal-like patch at 17' (3" long), wet, no odor, soft.	5	16'-18'	24"	1145	19.2
18'-20'	No recovery.					
20'-22'	20" - Light brown sand, fine and coarse grain gravel, wet, no odor, soft. 4" - No recovery.	6	20'-22'	20"	1200	3.1
24'-26'	24" - Light brown sand, coarse and fine grain gravel, no odor, soft, wet.	7	24'-26'	24"	1225	18.9
26'-28'	No recovery.					
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-20 (Continued)

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>February 24, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>25'</u>
		At Completion:	<u> </u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
28'-30'	24" - Light brown sand, fine grain gravel, no odor, soft, wet.	8	28'-30'	24"	1310	4.1
30'-32'	No recovery.					
32'-34'	18" - Light brown sand with coarse and fine grain gravel, soft, wet, no odor.	9	32'-34'	18"	1330	6.4
34'-36'	No recovery.					
36'-38'	18" - Light brown sand with coarse and fine grain gravel, soft, wet, no odor.	10	36'-38'	18"	1400	2.1
38'-40'	No recovery.					
*40'-44'	30" - Light brown sand (sand darker than any previous), slight odor, soft, wet.	11	40'-44'	30"	1430	16.9
44'-46'	10" - Light brown sand with darker color than before 40', odd odor, wet, soft.	12	44'-46'	12"	1510	5.6
	2" - Same sand with coarse and fine grain gravel.					
46'-48'	No recovery.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-21

Client:	West Virginia DEP/OER	Date:	February 13, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	6'-7'
		At Completion:	12'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	40" - Light brown, sandy clay, moist, no odor, medium stiff. 8" - No recovery.	1	0-4'	40"	0840	0.7
4'-8'	48" - Light brown, sandy clay, moist to very moist (wet) at 6', no odor, medium stiff to soft at 6'.	2	4'-8'	48"	0900	1.0
8'-10'	15" - Light brown, sandy clay, very moist, no odor, soft. 5" - Light brown, silty sand, coarse and fine grain gravel, no odor, soft, wet.	3	8'-10'	20"	0910	0.6
10'-12'	No recovery.					
*12'-14'	20" - Light brown, silty sand, fine and coarse grain gravel, no odor, soft, saturated.	4	12'-14'	20"	0920	0.8
14'-16'	No recovery.					
16'-18'	24" - Light brown, silty sand, no odor, wet, soft, fine and coarse grain gravel.	5	16'-18'	24"	0935	0.7
18'-20'	No recovery.					
20'-22'	20" - Light brown, silty sand, fine and coarse grain gravel, wet, no odor, soft. 4' - No recovery.	6	20'-22'	20"	0950	1.0
22'-24'	No recovery.					
24'-26'	20" - Light brown, silty sand, fine and coarse grain gravel, wet, no odor, soft.	7	24'-26'	20"	1015	0.7
26'-28'	No recovery.					
28'-32'	30" - Light brown, silty sand, fine and coarse grain gravel, no odor, soft, below water table.	8	28'-32'	30"	1035	0.7
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-22

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>February 12, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>13'-14'</u>
		At Completion:	<u>13'-14'</u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	30" - Light brown, sandy clay, occasional coarse grain gravel, no odor, medium stiff, moist. 18" - No recovery.	1	0-4'	30"	1500	1.5
4'-6'	24" - Light brown, sandy clay, no odor, moist, medium stiff.	2	4'-6'	24"	1510	1.0
6'-8'	No recovery.					
8'-12'	30" - Light brown, sandy clay, moist, no odor, medium stiff. 18" - No recovery.	3	8'-12'	30"	1530	1.8
*12'-16'	12" - Light brown, sandy clay, moist, no odor, medium stiff. 24" - Light brown, silty sand, coarse and fine grain gravel, no odor, wet, soft.	4	12'-16'	36"	1545	1.0
16'-18'	24" - Light brown, silty sand, coarse and fine grain gravel, no odor, looks below water table, soft.	5	16'-18'	24"	1610	1.1
18'-20'	No recovery.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-23

Client:	West Virginia DEP/OER		Date:	February 12, 2003	
Project:	PPG Industries, Inc.		Project No.:	02-0119-003	
Location:	Natrium, West Virginia		Field Engr/Geo:	M. Kauffer	
Driller:	Roy Fox		Water Level Information		
Method:	GeoProbe	Immediate:	6.5'	At Completion:	16'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	36" - Light brown, sandy clay, no odor, moist, soft to medium stiff.	1	0-4'	36"	1200	5.2
4'-8'	48" - Light brown, sandy clay, no odor, wet at 6.5', medium stiff.	2	4'-8'	48"	1210	4.5
8'-12'	40" - Light brown, sandy clay, no odor, wet, medium stiff.	3	8'-12'	40"	1310	1.2
12'-14'	14" - Light brown, sandy clay, no odor, wet, medium stiff.	4	12'-14'	24"	1330	0.9
	10" - Light brown, silty sand, no odor, wet, soft with coarse and fine grain gravel.					
14'-16'	No recovery.					
16'-18'	6" - Light brown, silty sand with coarse and fine grain gravel, no odor, saturated, soft.	5	16'-18'	6"	1345	1.0
	18" - No recovery.					
18'-20'	No recovery.					
20'-22'	18" - Light brown, silty sand with coarse and fine grain gravel, no odor, saturated, soft, below water table.	6	20'-22'	18"	1400	2.7
*Soil samples submitted from noted depth interval.						

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-24

Client:	West Virginia DEP/OER	Date:	March 13, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	Unknown
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
0-4'	6" - Black cinder, no odor, soft, moist. 30" - Light brown, sandy clay, no odor, soft, moist. 12" - No recovery.	1	0-4'	36"	0720	0.8
4'-8'	40" - Light brown, sandy clay, no odor, soft, very moist and wet at approximately 6'. 8" - No recovery.	2	4'-8'	40"	0730	1.2
8'-10'	1" - Light brown, sandy clay, no odor, wet, soft. 11" - Light brown, silty sand with coarse grain gravel (sandstone), no odor, small amount of water in tube, wet, soft. 1" - No recovery.	3	8'-10'	12"	0740	2.6
10'-12'	No recovery.					
12'-16'	No recovery - rock.					
16'-18'	10" - Light brown, silty sand with coarse grain gravel - quartz, no odor, soft except for rocky, very moist. 14" - No recovery.	4	16'-18'	10"	0810	5.7
18'-20'	No recovery.					
20'-22'	24" - Light brown, silty sand with fine grain gravel, no odor, soft, very moist.	5	20'-22'	24"	0825	5.1
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-24 (Continued)

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>March 13, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>Unknown</u>
		At Completion:	<u> </u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
24'-28'	30" - Light brown, silty sand with coarse grain gravel, dark charcoal-like patch at 25.5'-26', soft, nearly wet. 6" - No recovery. *Soil samples submitted from noted depth interval.	6	24'-28'	30"	0845	12.2
28'-30'	24" - Light brown, silty sand with coarse grain gravel, dark charcoal-like patches throughout, no odor, wet.	7	28'-30'	24"	0900	29.6
30'-32'	No recovery.					
32'-34'	24" - Light brown, silty sand with coarse grain gravel, no odor, wet, soft, charcoal patches throughout.	8	32'-34'	24"	0930	10.8
34'-36'	No recovery. Refusal on quartz at 36'.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-25

Client:	West Virginia DEP/OER	Date:	March 13, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	12'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	30" - Black cinder fill, no odor, dry, soft.	1	0-4'	30"	1020	2.4
4'-8'	3" - Black cinder fill, no odor, dry, soft.	2	4'-8'	24"	1030	1.3
	6" - Light brown, sandy clay, no odor, moist, soft.					
	15" - Light grey, sandy clay, no odor, very moist, medium stiff.					
8'-12'	12" - Light grey, sandy clay, no odor, very moist, medium stiff.	3	8'-12'	40"	1045	1.4
	28" - Light brown, sandy clay, no odor, medium stiff, soft and very moist to wet at 10.5'.					
	8" - No recovery.					
12'-14'	6" - Sandstone, no odor, hard, wet.	4	12'-14'	24"	1100	2.7
	18" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, wet.					
14'-16'	No recovery.					
16'-18'	15" - Light brown, silty sand with high percentage coarse grain gravel, no odor, soft, wet.	5	16'-18'	15"	1110	1.7
	9" - No recovery.					
18'-20'	No recovery.					
20'-22'	20" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, saturated.	6	20'-22'	20"	1125	2.8
	4" - No recovery.					
24'-28'	36" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, wet.	7	24'-28'	36"	1145	4.8
	12" - No recovery.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-25 (Continued)

Client:	West Virginia DEP/OER		Date:	March 13, 2003
Project:	PPG Industries, Inc.		Project No.:	02-0119-003
Location:	Natrium, West Virginia		Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information		
Method:	GeoProbe	Immediate:	12'	At Completion:

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
28'-30'	24" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, wet.	8	28'-30'	24"	1300	4.0
30'-32'	No recovery.					
32'-34'	15" - Light brown, silty sand. 9" - No recovery.	9	32'-34'	15"	1330	2.9
34'-36'	No recovery.					
36'-38'	15" - Light brown, silty sand with coarse grain gravel, no odor, saturated, soft. 9" - No recovery.	10	36'-38'	15"	1400	4.6
38'-40'	No recovery.					
*40'-42'	24" - Light brown, silty sand, coarse grain gravel - sandstone, water in tube, soft, below water table.	11	40'-42'	24"	1445	4.1
42'-44'	No recovery. Refusal at 44'. Set PZ-6 at SB-25 with 20' screen, depth 44'.					
*Soil samples submitted from noted depth interval.						

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-26

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>March 12, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>Unknown</u>
		At Completion:	<u> </u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	40" - Light brown, sandy clay, top 12" darker than elsewhere, no odor, medium stiff, moist. 8" - No recovery.	1	0-4'	40"	1250	1.0
4'-8'	30" - Light brown, sandy clay, no odor, soft, very moist. 5" - Light brown, sandy clay, dark cinder like material mixture with coarse and fine grain gravel, no odor, wet, soft. 1" - Light brown, silty sand, no odor, soft, very moist. 12" - No recovery.	2	4'-8'	30"	1310	1.2
8'-10'	4" - Light brown, silty sand with coarse grain sandstone at bottom, no odor, soft, moist. 20" - No recovery.	3	8'-10'	4"	1330	1.2
10'-20'	No recovery, pulled up golf ball size chunk of flint or similar looking rock.					
*20'-22'	2" - Dark charcoal-like patch, no odor, soft, very moist. 16" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, very moist. 6" - No recovery.	4	20'-22'	18"	1420	2.9
22'-24'	No recovery.					
24'-32'	No recovery - refusal at 31', granite at end of barrel.					
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-27

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>February 26, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>4'</u>
		At Completion:	<u>34.5</u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-4'	36" - Light brown, sandy clay, no odor, medium stiff, moist. 12" - No recovery.	1	0'-4'	36"	0950	5.4
4'-8'	28" - Light brown, sandy clay, wet, soft, slight oil odor. 8" - Light brown, sandy clay with coarse and fine grain gravel, slight odor, wet.	2	4'-8'	36"	1000	4.8
8'-10'	12" - Light brown, sandy clay with high percentage of coarse grain gravel, no odor, wet, soft. 12" - No recovery.	3	8'-10'	12"	1010	8.1
10'-12'	No recovery.					
12'-14'	12" - Light brown, silty sand with high percentage coarse and fine grain gravel, wet, no odor, soft.	4	12'-14'	12"	1020	6.9
14'-16'	No recovery.					
16'-18'	24" - Light brown, silty sand with fine and coarse grain gravel, no odor, soft, wet.	5	16'-18'	24"	1035	4.3
18'-20'	No recovery.					
20'-22'	12" - Light brown sand, no odor, soft, wet.	6	20'-22'	12"	1050	7.8
22'-24'	No recovery.					
*24'-26'	24" - Light brown sand, no odor, wet, soft, bottom 2" has dark charcoal-like zone.	7	24'-26'	24"	1130	23.4
26'-28'	No recovery.					
28'-30'	3" - Dark charcoal-like material, no odor, soft, wet. 9" - Light brown sand with coarse and fine grain gravel, no odor, wet, soft. *Soil samples submitted from noted depth interval. *Soil samples submitted from noted depth interval.	8	28'-30'	12"	1150	18.8

BORING NUMBER: SB-27 (Continued)

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
30'-32'	No recovery.					
32'-34'	12" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, wet.					
34'-36'	No recovery.					
36'-38'	24" - Light brown sand with coarse and fine grain gravel, odor, soft, wet.					
	Set PZ-4 to 40', water at 34.5					
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-28

Client:	West Virginia DEP/OER	Date:	February 26, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	5'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	36" - Light brown, sandy clay with coarse grain gravel, dark blotches less than 1", no odor, moist, medium stiff. Hit glass at 4'-5', moved 5' east.	1	0-4'	36"	0840	3.3
*4'-6'	6" - Light brown, sandy clay with coarse grain gravel, dark blotches, oil like odor (faint), moist, medium stiff. 12" - Darker, sandy clay with thin plastic trash bag like coves, odor oil like, wet, medium stiff, (very hard drilling). 6" - No recovery.	2	4'-6'	18"	0915	3.0
6'-8'	No recovery. Three times refusal at 5.5'.					
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-29

Client:	West Virginia DEP/OER	Date:	February 13, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	16'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	36" - Light brown, sandy clay, indistinguishable odor like SB-30 on 02/04/03, moist, medium stiff, dark patch also like SB-30 at 2.5', patch is 2" long.	1	0-4'	36"	1440	2.6
4'-6'	6" - Darker brown, sandy clay, has odor, moist, medium stiff.	2	4'-6'	6"	1500	4.0
6'-8'	No recovery.					
*8'-10'	6" - Mostly darker brown, sandy clay with paper like material (trash) and what looks like wood chips, odd odor, moist, medium stiff.	3	8'-10'	6"	1510	24.3
10'-16'	No recovery.					
16'-20'	2" - Light brown, silty sand, coarse and fine grain gravel, no odor, wet, soft.	4	16'-20'	2"	1530	1.0
20'-24'	30" - Light brown, silty sand, coarse and fine grain gravel, no odor, saturated, soft.	5	20'-24'	30"	1545	3.9
	Set PZ-2 at 24'.					
	*Soil samples submitted from noted depth interval.					

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VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-30

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>February 13, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>9'</u>
		At Completion:	<u>14.5'</u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-2'	6" - Darker black, ash-like material, indistinguishable odor, soft, moist. 18" - Light brown, sandy clay, no odor, medium stiff, moist.	1	0-2'	24"	1305	1.0
2'-4'	No recovery.					
4'-6'	20" - Light brown, sandy clay with some coarse grain gravel, no odor, medium stiff, moist to very moist at 5.5'. 4" - No recovery.	2	4'-6'	20"	1320	0.6
6'-8'	No recovery.					
8'-12'	36" - Light brown, sandy clay with coarse and fine grain gravel, no odor, soft, wet at 9'.	3	8'-12'	36"	1330	1.2
*12'-16'	18" - Light brown, sandy clay with coarse and fine grain gravel, no odor, soft, wet. 12" - Light brown, silty sand with coarse and fine grain gravel, no odor, soft, saturated.	4	12'-16'	30"	1315	1.1
16'-20'	30" - Light brown, silty sand with coarse and fine grain gravel, no odor, saturated, soft.	5	16'-20'	30"	1400	0.6
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-31

Client:	West Virginia DEP/OER	Date:	March 5, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	6'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	8" - Light brown, sandy clay, no odor, soft, moist. 12" - Light grey, lean, sandy clay, no odor, very moist, soft. 16" - Dark, sandy, ash-like material, no odor, soft, moist. 12" - No recovery.	1	0-4'	36"	0900	49.5
4'-8'	30" - Dark black, ash-like material, no odor, soft, wet, saturated at 6'. 12" - No recovery.	2	4'-8'	36"	0905	188
8'-12'	12" - Light grey, sandy clay, no odor, medium stiff, moist. 28" - Light brown, lean, sandy clay, no odor, medium stiff, moist. 8" - No recovery.	3	8'-12'	40"	0915	110
*12'-16'	48" - Light brown, sandy clay, no odor, soft, very wet at 15'.	4	12'-16'	48"	0930	218
16'-20'	12" - Light brown, sandy clay, no odor, soft, wet. 36" - Light brown, silty sand, no odor, wet. This entire section below water table.	5	16'-20'	48"	0945	101
20'-24'	8" - Light brown, silty sand, no odor, soft, wet. 40" - Light brown, sandy clay, no odor, soft, wet.	6	20'-24'	48"	1000	183
24'-26'	24" - Light brown, silty sand with coarse grain gravel, slight odor, soft, saturated, water in tube had odor.	7	24'-26'	24"	1020	71.8
26'-28'	No recovery. *Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-31 (Continued)

Client:	West Virginia DEP/OER	Date:	March 5, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	6'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
28'-30'	18" - Light brown, silty sand with coarse and fine grain gravel, slight odor to water in tube.	8	28'-30'	18"	1040	89.9
	6" - No recovery.					
30'-34'	No recovery.					
34'-36'	No recovery, refusal at 35.5', hard sandstone in barrel.					
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-32

Client:	West Virginia DEP/OER	Date:	March 5, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	16'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	8" - Light brown, sandy clay, no odor, soft, moist. 3" - Light grey, sandy clay, no odor, soft, moist. 25" - Dark, ash-like (coal fine like) material, no odor, soft, moist. 12" - No recovery.	1	0-4'	36"	1330	70.4
4'-6'	15" - Dark, ash-like material, no odor, soft, moist, some coarse grain gravel. 9" - No recovery.	2	4'-6'	15"	1340	165
6'-8'	No recovery.					
8'-12'	2" - Dark, ash-like (somewhat like coal fines) material, odor - like creosote, soft, very moist. 28" - Light brown, sandy clay, odor, very moist, medium stiff. 6" - No recovery.	3	8'-12'	30"	1355	490
12' - 16'	48" - Light brown, sandy clay, odor, medium stiff, very moist.	4	12'-16'	48"	1405	291
16'-20'	48" - Light brown, sandy clay, less odor, wet, medium stiff.	5	16'-20'	48"	1430	648
20'-24'	48" - Light brown, sandy clay, odor, wet, medium stiff.	6	20'-24'	48"	1445	278
*24'-28'	48" - Light brown, sandy clay, odor, very soft and wet, visible sheen, coarse and fine grain gravel at 26.5' and on. Refusal at 28.5'.	7	24'-28'	48"	1510	2972
28'-32'	No recovery.					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-33

Client:	West Virginia DEP/OER	Date:	March 6, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	18'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	36" - Dark, sandy coal fine like material, no odor, very moist, soft.	1	0-4'	36"	0830	2.1
4'-8'	30' - Dark, sandy coal fine like material, no odor, wet, soft.	2	4'-8'	30"	0845	3.9
	6" - Light brown, sandy clay, no odor, soft, moist.					
	18" - No recovery.					
8'-12'	12" - Light grey/brown, sandy clay, no odor, medium stiff, moist.	3	8'-12'	36"	0900	2.7
	24" - Light brown, sandy clay, no odor, medium stiff, moist.					
12'-16'	48" - Light brown, sandy clay, no odor, moist, medium stiff.	4	12'-16'	48"	0910	2.9
16'-20'	48" - Light brown, sandy clay, no odor, wet at 17.5', medium stiff to soft at 17.5'.	5	16'-20'	48"	0930	2.8
*20'-24'	48" - Light brown, sandy clay, no odor, saturated, soft.	6	20'-24'	48"	1000	4.6
24'-28'	36" - Light brown, sandy clay, no odor, saturated, soft.	7	24'-28'	36"	1030	5.0
	Refusal on hard rock at 27'					
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-34

Client:	West Virginia DEP/OER	Date:	February 25, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	16'
		At Completion:	20.5

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-2'	6" - Light brown, sandy clay, no odor, soft, wet from snow melt. 12" - Dark, ash-like, sandy soil, no odor, soft, very moist. 6" - No recovery.	1	0-2'	18"	1345	2.6
2'-4'	No recovery.					
4'-6'	4" - Dark, ash-like, sandy soil, no odor, soft, very moist. 6" - Light brown sand pocket, no odor, soft, wet. 8" - Dark, ash-like, sandy soil with some coarse and fine grain gravel, no odor, saturated (wet), soft.	2	4'-6'	18"	1400	2.2
6'-8'	No recovery.					
8'-12'	40" - Light brown, sandy clay, no odor, moist, medium stiff. 8" - No recovery.	3	8'-12'	40"	1410	5.6
12'-16'	48" - Light brown, sandy clay, no odor, moist (wet at 15.5'), medium stiff to soft at 15.5'.	4	12'-16'	48"	1418	6.7
16'-20'	4" - Light brown, sandy clay, no odor, soft, wet. 36" - Darker, ash-like, sandy soil, no odor, wet, soft. 8" - Light brown, sandy clay, no odor, soft, wet.	5	16'-20'	48"	1430	25.2
	*Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-34 (Continued)

Client:	West Virginia DEP/OER	Date:	February 25, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	16'
		At Completion:	20.5

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*20'-24'	24" - Light brown, sandy clay, no odor, soft, wet. 3" - Light brown sand, no odor, wet, soft. 13" - Light brown, sandy clay, no odor, soft, wet. 8" - No recovery.	6	20'-24'	40"	1445	41.4
24'-26'	24" - Light brown, sandy clay, odd odor, soft, wet, coarse grain gravel at 25' and on.	7	24'-26'	24"	1505	31.9
26'-28'	No recovery.					
28'-32'	42" - Light brown, sandy clay with coarse and fine grain gravel, odd odor, saturated, bottom 3" more gravel than clay, water in tube. 6" - No recovery.	8	28'-32'	42"	1530	7.2
32'-34'	24" - Light brown, silty sand with coarse and fine grain gravel, water in tube, odd odor, saturated, soft. Refusal at 35.5' on gravel.	9	32'-34'	24"	1600	6.5
34'-36'	No recovery.					
	Set PZ-3 at 36', well below water table. *Soil samples submitted from noted depth interval.					

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-35

Client:	West Virginia DEP/OER	Date:	February 25, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	19'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	30" - Dark, sandy soil, somewhat like ash, no odor, wet due to melt off, soft.	1	0-4'	30"	0830	2.2
4'-6'	11" - Dark, sandy soil, like ash, no odor, soft, wet. 1" - Light brown, sandy clay, no odor, wet, soft.	2	4'-6'	12"	0850	3.1
6'-8'	No recovery.					
8'-12'	48" - Light brown, sandy clay, no odor, medium stiff, moist, very moist at 12'.	3	8'-12'	48"	0900	8.8
12'-16'	48" - Light brown, sandy clay, no odor, medium stiff, wet.	4	12'-16'	48"	0930	10.5
*16'-20'	24" - Light brown, sandy clay, no odor, soft, wet. 12" - Dark, sandy soil, like ash, no odor, soft, wet. 12" - Light brown, sandy clay, no odor, soft, saturated/wet. Bottom 12" definitely below water table.	5	16'-20'	48"	1030	9.7
20'-24'	36" - Light brown, sandy clay, no odor, soft, wet. Refusal at 23'.	6	20'-24'	36"	1100	10.1
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-36

Client:	West Virginia DEP/OER	Date:	March 10, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	20
		At Completion:	20

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0'-2'	6" - Light brown, sandy clay, no odor, medium stiff, dry. 4" - Light grey, lean, sandy clay, no odor, moist, soft. 10" - Dark cinder like material with coarse grain gravel, no odor, wet, soft. 4" - No recovery.	1	0-2'	20"	0930	4.8
2'-4'	No recovery.					
4'-8'	30" - Light grey, lean, sandy clay, no odor, soft, very moist. 18" - No recovery.	2	4'-8'	30"	0910	5.1
8'-12'	12" - Light grey, lean, sandy clay, no odor, soft, wet. 1" - Layer of fine grain gravel. 24" - Light brown, sandy clay, no odor, moist, medium stiff. 12" - No recovery.	3	8'-12'	36"	0925	4.8
12'-16'	48" - Light brown, sandy clay, slight odor of sewage, stiff, approaching wet.	4	12'-16'	48"	0995	7.1
*16'-20'	48" - Light brown, sandy clay, same slight sewage odor, stiff, looks wet at 19' but difficult to tell. Refusal at 19.8' on hard pack clay.	5	16'-20'	48"	1000	7.0
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-37

Client:	<u>West Virginia DEP/OER</u>	Date:	<u>March 10, 2003</u>
Project:	<u>PPG Industries, Inc.</u>	Project No.:	<u>02-0119-003</u>
Location:	<u>Natrium, West Virginia</u>	Field Engr/Geo:	<u>M. Kauffer</u>
Driller:	<u>Roy Fox</u>	Water Level Information	
Method:	<u>GeoProbe</u>	Immediate:	<u>13'</u>
		At Completion:	<u>13'</u>

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
0-4'	12" - Light brown/grey, sandy clay, no odor, soft, moist. 4" - Dark, cinder like material, no odor, soft wet. 20" - Light brown, sandy clay.	1	0-4'	36"	1040	3.2
4'-8'	No recovery, pulled barrels, knocked out rock.	2	4'-8'	0		
8'-12'	48" - Light brown, sandy clay, no odor, stiff, very moist.	3	8'-12'	48"	1110	4.1
12'-16'	48" - Light brown, sandy clay, no odor, mediums stiff, soft at 13', wet (saturated) at 13'.	4	12'-16'	48"	1120	3.8
16'-20'	No recovery. Refusal at 16' on hard rock clay.					
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-38

Client:	West Virginia DEP/OER	Date:	March 10, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	10'-12'
		At Completion:	10'-12'

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	36" - Light brown, sandy clay, no odor, medium stiff, moist. 12" - No recovery	1	0-4'	36"	1310	3.8
4'-8'	36" - Light brown, sandy clay, no odor, medium stiff, moist to very moist at 6.5'. 12" - No recovery.	2	4'-8'	36"	1320	4.0
8'-12'	40" - Light brown, sandy clay, no odor, wet at 10', soft. 8" - No recovery.	3	8'-12'	40"	1335	3.6
12'-16'	48" - Light brown, sandy clay, no odor, wet, soft.	4	12'-16'	48"	1345	4.8
*16'-20'	48" - Light brown, sandy clay, no odor, wet, soft. 6" - No recovery, refusal at 19.5' on hard pack clay.	5	16'-20'	48"	1400	5.8
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-39

Client:	West Virginia DEP/OER	Date:	March 11, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	11
		At Completion:	11

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	36" - Light brown, sandy clay, no odor, medium stiff, moist. 12" - No recovery.	1	0-4'	36"	0740	14.1
*4'-8'	36" - Light brown, sandy clay, no odor, medium stiff, moist. 12" - No recovery.	2	4'-8'	36"	0755	8.0
8'-12'	36" - Light brown, sandy clay, no odor, soft, wet at 11'. 12" - No recovery.	3	8'-12'	36"	0810	6.5
12'-16'	48" - Light brown, sandy clay, no odor, soft, wet.	4	12'-16'	48"	0825	8.3
*16'-20'	48" - light brown, sandy clay, no odor, soft, wet.	5	16'-20'	48"	0840	7.0
20'-24'	No recovery, refusal at 20.5' on hard pack clay.	6	20'-24'	0		
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-40

Client:	West Virginia DEP/OER	Date:	March 11, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	13'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	6" - Light brown, sandy clay, no odor, soft, moist. 15" - Light grey/white, chalk like clay with some fine grain gravel, odd odor, moist, medium stiff. 15" - Light brown, sandy clay, slight odor, moist, medium stiff. 12" - No recovery.	1	0-4'	36"	1000	65.0
4'-8'	No recovery, pulled barrels up slightly, removed rock.	2	4'-8'	0		
8'-12'	48" - Light brown, sandy clay, no odor, medium stiff, very moist at 11'.	3	8'-12'	48"	1035	3.1
12'-16'	48" - Light brown, sandy clay, no odor, soft at 12.5', wet at 13'.	4	12'-16'	48"	1050	2.4
*16'-20'	48" - Light brown, sandy clay, no odor, soft, wet, refusal at 20' on hard pack clay.	5	16'-20'	48"	1115	1.8
*Soil samples submitted from noted depth interval.						

VISUAL LOG OF ENVIRONMENTAL BORING

BORING NUMBER: SB-41

Client:	West Virginia DEP/OER	Date:	March 11, 2003
Project:	PPG Industries, Inc.	Project No.:	02-0119-003
Location:	Natrium, West Virginia	Field Engr/Geo:	M. Kauffer
Driller:	Roy Fox	Water Level Information	
Method:	GeoProbe	Immediate:	14.5'
		At Completion:	

Depth Interval	Description of Materials	Sample			(Time) Blow Counts	PID or FID (ppm-v/v)
		No.	Depth	Recovery		
*0-4'	2" - Light brown, sandy clay, no odor, soft, moist. 6" - Dark, cinder like material, no odor, soft, moist. 24" - Light grey/white, chalk like material, odd odor similar to paint thinner, soft, moist. 4" - Light brown, sandy clay, odd odor, soft, moist.	1	0-4'	36"	1300	13.3
6'-8'	No recovery.	2	6'-8'	0		
4'-6'	3" - Light brown, sandy clay, slight odor, soft, moist. 3" - Light grey/white, chalky material, odd odor similar to paint thinner, soft, moist. 6" - Light brown, sandy clay, slight odor, medium stiff, moist. 12" - No recovery.	3	4'-6'	12"	1315	28.2
8'-12'	1" - White stone, no odor, hard, moist. 47" - Light brown, sandy clay, slight odor, medium stiff, moist.	4	8'-12'	48"	1450	8.4
12'-16'	48" - Light brown, sandy clay, slight odor, moist and wet at 14.5', medium stiff and than soft at 14.5'.	5	12'-16'	48"	1510	3.5
*16'-20'	48" - Light brown, sandy clay, slight odor, wet, soft, refusal at 20' on hard pack clay.	6	16'-20'	48"	1530	4.9
*Soil samples submitted from noted depth interval.						